EMCOG REGIONAL TRAFFIC SAFETY PLAN

Countermeasures Meeting December 12, 2016





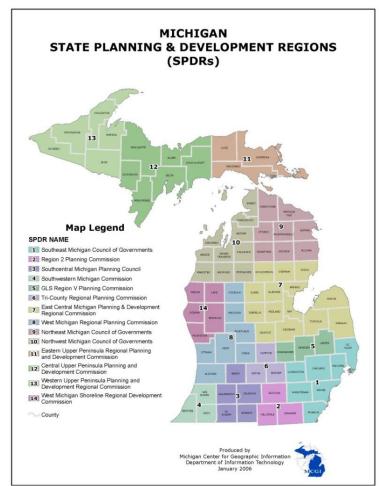


Local Road Safety Plans

- Renamed Regional Traffic Safety Plans (RTSP)
- Formal plan, but living document (updated regularly)
- Developed using YOUR input
- Provides crash analysis for the Region
- Identifies areas and locations of safety concerns
- Identifies strategies to address safety concerns
- Identifies potential funding sources

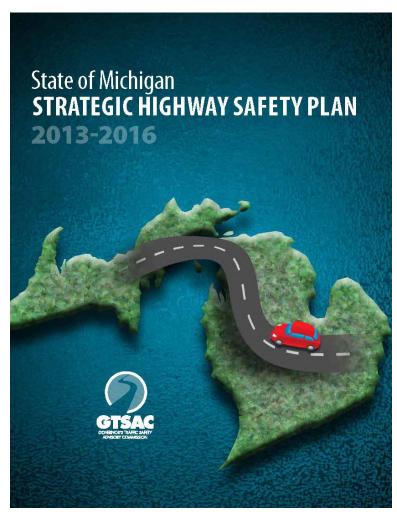
Michigan State Planning & Development Regions (SPDRs)

- Pilots developed for:
 - SEMCOG (Region 1)
 - Southwestern Michigan Commission (Region 4)
- Remaining 12 Plans
 - In the works
 - Completion by end of 2017



State of Michigan Strategic Highway Safety Plan (SHSP)

- Required by SAFETEA-LU
- First SHSP published in 2004, next update in 2017
- Statewide-coordinated
- Identified 11 Emphasis
 Areas
- Task Force for each Emphasis Area



State of Michigan Strategic Highway Safety Plan (SHSP) – Emphasis Areas

- Distracted Driving
- Impaired Driving
- Occupant Protection
- Commercial Motor Vehicle Safety
- Motorcycle Safety
- Pedestrian and Bicycle Safety
- Senior Mobility and Safety
- Drivers Age 24 and Younger
- Traffic Safety Engineering
- Traffic Incident Management
- Traffic Records and Information Systems

East Michigan Council of Governments Region 7 (EMCOG)

- 14 Counties
 - Arenac

Isabella

Bay

Midland

Clare

- Ogemaw
- Gladwin
- Roscommon
- Gratiot

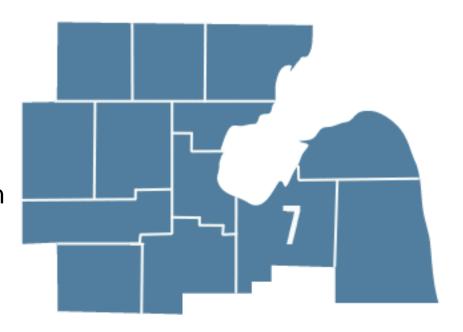
Saginaw

Huron

Sanilac

losco

- Tuscola
- Saginaw Chippewa
 Indian Tribe of Michigan



Regional Traffic Safety Plan Process

- Kick-Off Meeting
 - Discuss analysis results
 - Determine emphasis areas
- Countermeasures
 Meeting
 - Review emphasis areas
 - Identify countermeasures
- Draft Plan Meeting
 - Review draft plan
 - Discuss implementation



Figure 2.1 Structure of a Local Road Safety Plan.

Emphasis Areas based on YOUR input:

- Lane Departure
- Intersection Safety
- 3. Traffic Incident Management
- 4. Pedestrian and Bicycle Safety
- 5. Commercial Motor Vehicle Safety
- 6. Occupant Protection
- 7. Access Management
- 8. Distracted Driving
- Impaired Driving

Additional Emphasis Areas:

- 10. Drivers Age 24 and Younger
- 11. Senior Mobility Age 65 and Older
- 12. Motorcycle Safety
- 13. Speed Management
- 14. Traffic Safety Engineering
- 15. Traffic Records and Information Systems

High Priority Emphasis Areas:

- Lane Departure
- Intersection Safety
- Pedestrian and Bicycle Safety
- Drivers Age 24 and Younger

Emphasis Area Crash Percentages, EMCOG, 2010-2014*

Crashes by Involvement	All	Fatal	A-injury
	Crashes	Crashes	Crashes
Lane Departure	39%	30%	34%
	24,317	128	676
Intersection	37%	26%	30%
	28,525	110	592
Young driver (24 and younger)	39%	30%	34%
	30,421	128	676
Drugs	1%	16%	4%
	787	<i>66</i>	83
Alcohol	5%	34%	19%
	4,186	146	<i>380</i>
Senior driver (65 and older)	18%	29%	18%
	<i>13,702</i>	122	362
Truck/Bus	4%	7%	4%
	3,425	30	86
Motorcycle	2%	11%	11%
	1,160	<i>4</i> 5	207
Pedestrian	1%	9%	6%
	625	<i>40</i>	111
Bicycle	1%	3%	2%
	559	12	46
Deer	38%	2%	4%
	<i>47,7</i> 25	9	82

^{*}Most crashes have multiple factors

Lane Departure Crashes by County, 2010-2014

Location		ll shes		tal shes		ijury shes
Arenac	52%	823	52%	8	66%	55
Bay	25%	3,070	41%	25	43%	94
Clare	53%	1,477	74%	14	58%	68
Gladwin	54%	876	64%	9	61%	67
Gratiot	38%	1,359	67%	16	47%	57
Huron	44%	1,219	37%	7	52%	36
losco	43%	786	53%	9	68%	42
Isabella	26%	2,299	51%	20	39%	89
Midland	26%	2,261	48%	16	51%	70
Ogemaw	50%	934	67%	12	52%	49
Roscommon	49%	1,056	70%	14	52%	41
Saginaw	23%	5,136	60%	55	41%	147
Sanilac	44%	1,008	44%	8	43%	43
Tuscola	47%	2,013	58%	22	51%	99
EMCOG	32%	24,317	55%	235	49%	957
Michigan	19%	264,683	47%	1,994	38%	8,579

Lane Departure Countermeasures and Strategies

- Safety edge pavement treatments
- Paved shoulders
- Centerline and shoulder rumble strips
- Fluorescent yellow sheeting on warning signs
- Wet reflective pavement markings
- Advanced curve warning signs
- Pilot Areas:
 - Cable barrier on shoulders
 - Adaptive speed limits, speed cameras, connected vehicle technologies

Intersection Crashes by County, 2010-2014

Location		ll shes		tal shes		jury shes
Arenac	16%	255	13%	2	16%	13
Bay	36%	4,356	33%	20	32%	71
Clare	19%	530	11%	2	19%	22
Gladwin	19%	302	7%	1	16%	18
Gratiot	26%	935	8%	2	21%	25
Huron	23%	627	32%	6	32%	22
losco	29%	540	18%	3	23%	14
Isabella	38%	3,277	36%	14	39%	88
Midland	45%	3,956	30%	10	33%	45
Ogemaw	26%	490	28%	5	31%	29
Roscommon	21%	450	15%	3	18%	14
Saginaw	48%	10,885	24%	22	38%	136
Sanilac	27%	614	33%	6	30%	30
Tuscola	31%	1,308	37%	14	34%	65
EMCOG	37%	28,525	26%	110	30%	592
Michigan	29%	420,766	26%	1,096	33%	7,428

Intersection Safety Countermeasures and Strategies

- Review intersection traffic control
 - Traffic signal layout box span or mast arm
 - Signal optimization
 - Left turn signal phasing
 - Roundabout (mini or standard)
- Road Safety Audits
- Advanced intersection signage
- Installation of transverse rumble strips
- Overhead street name signs
- Connected Vehicle technologies
- Pilot Areas: signalized roundabouts, horizontal signing, intersection conflict warning systems

Pedestrian Crashes by County, 2010-2014

Location		ll shes		tal shes		jury shes
Arenac	0%	7	13%	2	4%	3
Bay	1%	101	15%	9	6%	14
Clare	1%	25	0%	0	7%	8
Gladwin	1%	24	7%	1	5%	6
Gratiot	1%	21	8%	2	5%	6
Huron	1%	22	16%	3	3%	2
losco	1%	13	12%	2	2%	1
Isabella	1%	89	10%	4	10%	23
Midland	0%	41	9%	3	5%	7
Ogemaw	0%	8	0%	0	2%	2
Roscommon	1%	17	10%	2	4%	3
Saginaw	1%	200	9%	8	6%	22
Sanilac	1%	22	11%	2	7%	7
Tuscola	1%	35	5%	2	4%	7
EMCOG	1%	625	9%	40	6%	111
Michigan	1%	11,267	16%	702	8%	1,855

Bicycle

Crashes by County, 2010-2014

Location		All shes		tal shes		jury shes
Arenac	0%	6	0%	0	4%	3
Bay	1%	133	2%	1	2%	5
Clare	0%	6	0%	0	1%	1
Gladwin	1%	12	0%	0	3%	3
Gratiot	1%	20	4%	1	2%	2
Huron	0%	13	0%	0	1%	1
losco	1%	23	12%	2	0%	0
Isabella	1%	85	5%	2	2%	4
Midland	1%	73	3%	1	5%	7
Ogemaw	0%	5	0%	0	0%	0
Roscommon	1%	12	0%	0	4%	3
Saginaw	1%	141	5%	5	4%	13
Sanilac	1%	14	0%	0	2%	2
Tuscola	0%	16	0%	0	1%	2
EMCOG	1%	559	3%	12	2%	46
Michigan	1%	9,436	3%	125	4%	788

Pedestrian and Bicycle Safety Countermeasures and Strategies

- Pedestrian countdown signals
- Safety path, sidewalk and crosswalk improvements
- Installation & maintenance of bicycle lanes
- Medians
- Pedestrian bump outs
- Pedestrian and bicycle education programs

Drivers Age 24 and Younger Crashes by County, 2010-2014

Location		All shes		tal shes		ijury shes
Arenac	30%	479	13%	2	20%	17
Bay	38%	4,667	38%	23	28%	61
Clare	31%	875	5%	1	23%	27
Gladwin	32%	523	36%	5	28%	31
Gratiot	39%	1,381	25%	6	44%	53
Huron	36%	1,000	26%	5	38%	26
losco	30%	550	12%	2	23%	14
Isabella	54%	4,685	33%	13	44%	101
Midland	42%	3,681	39%	13	37%	51
Ogemaw	33%	616	17%	3	30%	28
Roscommon	29%	624	25%	5	37%	29
Saginaw	39%	8,898	32%	29	33%	119
Sanilac	36%	827	28%	5	43%	43
Tuscola	38%	1,615	42%	16	39%	76
EMCOG	39%	30,421	30%	128	34%	676
Michigan	33%	465,925	29%	1,249	35%	7,751

Drivers Age 24 and Younger Countermeasures and Strategies

- Improve graduated driving licensing systems
- Publicize and enforce laws pertaining to young drivers
- Improve driver's education programs

Senior Driver (Age 65 and Older) Crashes by County, 2010-2014

Location		\II shes		tal shes		ijury shes
Arenac	19%	300	44%	7	16%	13
Bay	19%	2,279	26%	16	20%	44
Clare	20%	558	26%	5	24%	28
Gladwin	20%	329	36%	5	25%	27
Gratiot	17%	605	33%	8	18%	22
Huron	19%	519	26%	5	16%	11
losco	24%	448	24%	4	24%	15
Isabella	13%	1,105	15%	6	16%	37
Midland	17%	1,497	36%	12	9%	13
Ogemaw	21%	389	33%	6	19%	18
Roscommon	23%	486	25%	5	27%	21
Saginaw	18%	4,162	32%	29	17%	62
Sanilac	17%	388	22%	4	20%	20
Tuscola	15%	637	26%	10	16%	31
EMCOG	18%	13,702	29%	122	18%	362
Michigan	14%	201,977	22%	919	15%	3,447

Senior (Age 65 and Older) Mobility Countermeasures and Strategies

- Senior driver focused engineering countermeasures:
 - Arrow per lane freeway signs
 - Advance warning signs
 - Advance guide and street name signs
 - Warning signs with fluorescent yellow sheeting
 - Pedestrian countdown signals
 - Convert traffic signals from diagonal to box span configuration
 - All-red clearance intervals
 - Protected left turn phases
 - Reduce intersection skew
- Senior-friendly transportation options

Other Emphasis Areas

- Commercial Motor Vehicle Safety
- Occupant Protection
- Access Management
- Distracted Driving
- Impaired Driving
- Motorcycle Safety
- Speed Management
- Traffic Safety Engineering
- Traffic Incident Management
- Traffic Records and Information Systems

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Additional resources

Emphasis Area Crash Percentages, Arenac County, 2010-2014*

Crashes by Involvement	All	Fatal	A-injury
Crashes by involvement	Crashes	Crashes	Crashes
Lane Departure	52%	50%	66%
Lane Departure	823	8	55
Intersection	16%	13%	16%
Intersection	255	2	13
Voung driver (24 and vounger)	30%	13%	20%
Young driver (24 and younger)	479	2	17
Drugo	1%	13%	0%
Drugs	8	2	0
Alcohol	6%	50%	12%
Alconoi	100	8	10
Comicar duiver (CE and alder)	19%	44%	16%
Senior driver (65 and older)	300	7	13
Truck/Duo	5%	6%	2%
Truck/Bus	75	1	2
Motorovolo	3%	25%	18%
Motorcycle	40	4	15
Dedectries	0%	13%	4%
Pedestrian	7	2	3
Dievelo	0%	0%	4%
Bicycle	6	0	3
Door	55%	11%	8%
Deer	1,912	2	7

^{*}Most crashes have multiple factors.

Emphasis Area Crash Percentages, Bay County, 2010-2014*

Crashes by Involvement	All	Fatal	A-injury
	Crashes	Crashes	Crashes
Lane Departure	25%	41%	43%
	3,070	<i>25</i>	94
Intersection	36%	33%	32%
	<i>4,356</i>	20	71
Young driver (24 and younger)	38%	38%	28%
	<i>4,667</i>	23	61
Drugs	1%	26%	5%
	158	16	11
Alcohol	5%	48%	16%
	625	29	<i>3</i> 6
Senior driver (65 and older)	19%	26%	20%
	2,279	16	<i>44</i>
Truck/Bus	4%	8%	5%
	<i>44</i> 9	5	10
Motorcycle	2%	16%	16%
	188	<i>10</i>	<i>35</i>
Pedestrian	1%	15%	6%
	101	9	14
Bicycle	1%	2%	2%
	133	1	5
Deer	15%	0%	1%
	2,094	<i>0</i>	3

^{*}Most crashes have multiple factors.

Emphasis Area Crash Percentages, Clare County, 2010-2014*

Crashes by Involvement	All	Fatal	A-injury
	Crashes	Crashes	Crashes
Lane Departure	53%	74%	58%
	1,477	14	68
Intersection	19%	11%	19%
	530	2	22
Young driver (24 and younger)	31%	5%	23%
	<i>875</i>	1	27
Drugs	2%	16%	4%
	43	3	5
Alcohol	5%	32%	21%
	146	6	<i>25</i>
Senior driver (65 and older)	20%	26%	24%
	<i>55</i> 8	<i>5</i>	28
Truck/Bus	3%	0%	5%
	<i>9</i> 6	<i>0</i>	6
Motorcycle	2%	42%	12%
	52	8	<i>14</i>
Pedestrian	1%	0%	7%
	25	<i>0</i>	8
Bicycle	0%	0%	1%
	6	<i>0</i>	1
Deer	48%	0%	1%
	2,628	<i>0</i>	1

^{*}Most crashes have multiple factors.

Emphasis Area Crash Percentages, Gladwin County, 2010-2014*

Crashes by Involvement	All	Fatal	A-injury
Grading by involvement	Crashes	Crashes	Crashes
Lane Departure	54%	64%	61%
Lane Departure	876	9	67
Intersection	19%	7%	16%
Intersection	302	1	18
Voung driver (24 and vounger)	32%	36%	28%
Young driver (24 and younger)	523	5	31
Dww	1%	21%	6%
Drugs	22	3	7
Alcohol	8%	36%	18%
Alconoi	134	5	20
Senier driver (CF and alder)	20%	36%	25%
Senior driver (65 and older)	329	5	27
Truck/Due	3%	7%	2%
Truck/Bus	52	1	2
Meterovole	2%	7%	9%
Motorcycle	28	1	10
Dedectries	1%	7%	5%
Pedestrian	24	1	6
Biovala	1%	0%	3%
Bicycle	12	0	3
Daar	57%	0%	4%
Deer	2,156	0	5

^{*}Most crashes have multiple factors.

Emphasis Area Crash Percentages, Gratiot County, 2010-2014*

Crashes by Involvement	All	Fatal	A-injury
•	Crashes	Crashes	Crashes
Lane Departure	38%	67%	47%
Lane Departure	1,359	16	57
Intersection	26%	8%	21%
Intersection	935	2	25
Variation (24 and recomment)	39%	25%	44%
Young driver (24 and younger)	1,381	6	53
	1%	13%	2%
Drugs	34	3	3
ALCOLOR	4%	21%	11%
Alcohol	156	5	13
0	17%	33%	18%
Senior driver (65 and older)	605	8	22
T 1/D	5%	8%	7%
Truck/Bus	173	2	9
	1%	4%	6%
Motorcycle	50	1	7
	1%	8%	5%
Pedestrian	21	2	6
	1%	4%	2%
Bicycle	20	1	2
_	57%	0%	5%
Deer	4,758	0	7

^{*}Most crashes have multiple factors.

Emphasis Area Crash Percentages, Huron County, 2010-2014*

Crashes by Involvement	All	Fatal	A-injury
	Crashes	Crashes	Crashes
Lane Departure	44%	37%	52%
Lane Departure	1,219	7	36
Intersection	23%	32%	32%
Intersection	627	6	22
Young driver (24 and younger)	36%	26%	38%
Toding driver (24 and younger)	1,000	5	26
Drugs	1%	11%	4%
Diags	19	2	3
Alcohol	7%	32%	22%
Alcohol	184	6	15
Senior driver (65 and older)	19%	26%	16%
Seriioi di ivei (05 and oldei)	519	5	11
Truck/Bus	6%	16%	10%
Huckbus	153	3	7
Motorcycle	2%	0%	9%
Wotorcycle	47	0	6
Pedestrian	1%	16%	3%
Pedestrian	22	3	2
Bicycle	0%	0%	1%
Бісусіе	13	0	1
Deer	65%	10%	3%
Deer	5,216	2	2

^{*}Most crashes have multiple factors.

Emphasis Area Crash Percentages, losco County, 2010-2014*

Crashes by Involvement	All	Fatal	A-injury
	Crashes	Crashes	Crashes
Lane Departure	43%	53%	68%
	786	9	42
Intersection	29%	18%	23%
	<i>540</i>	3	14
Young driver (24 and younger)	30%	12%	23%
	<i>550</i>	2	14
Drugs	1%	0%	3%
	23	<i>0</i>	2
Alcohol	7%	41%	18%
	134	7	<i>11</i>
Senior driver (65 and older)	24%	24%	24%
	<i>44</i> 8	<i>4</i>	<i>15</i>
Truck/Bus	4%	6%	8%
	71	1	<i>5</i>
Motorcycle	2%	6%	8%
	41	1	5
Pedestrian	1%	12%	2%
	13	2	1
Bicycle	1%	12%	0%
	23	2	<i>0</i>
Deer	40%	0%	3%
	1,218	<i>0</i>	2

^{*}Most crashes have multiple factors.

Emphasis Area Crash Percentages, Isabella County, 2010-2014*

Crashes by Involvement	All Crashes	Fatal Crashes	A-injury Crashes
Lane Departure	26% 2,299	51% 20	39% 89
	38%	36%	39%
Intersection	3,277	14	88
	54%	33%	44%
Young driver (24 and younger)	4,685	13	101
	1%	18%	4%
Drugs	62	7	10
	6%	33%	25%
Alcohol	511	13	56
	13%	15%	16%
Senior driver (65 and older)	1,105	6	37
	3%	5%	2%
Truck/Bus	235	2	4
	1%	8%	6%
Motorcycle	98	3	13
	1%	10%	10%
Pedestrian	89	4	23
a	1%	5%	2%
Bicycle	85	2	4
	36%	3%	2%
Deer	4,867	1	5

^{*}Most crashes have multiple factors.

Emphasis Area Crash Percentages, Midland County, 2010-2014*

Crashes by Involvement	All	Fatal	A-injury
Cracino by involvement	Crashes	Crashes	Crashes
Lane Departure	26%	48%	51%
Lane Departure	2,261	16	70
Intersection	45%	30%	33%
Intersection	3,956	10	45
Young driver (24 and younger)	42%	39%	37%
Toding driver (24 and younger)	3,681	13	51
Drugo	1%	15%	3%
Drugs	44	5	4
Alcohol	4%	30%	21%
Alconor	365	10	29
Conion driver (CF and alder)	17%	36%	9%
Senior driver (65 and older)	1,497	12	13
Truck/Bus	3%	6%	5%
Truck/bus	266	2	7
Meterovole	1%	6%	15%
Motorcycle	117	2	20
Pedestrian	0%	9%	5%
Pedestrian	41	3	7
Pievele	1%	3%	5%
Bicycle	73	1	7
Door	33%	0%	6%
Deer	4,283	0	8

^{*}Most crashes have multiple factors.

Emphasis Area Crash Percentages, Ogemaw County, 2010-2014*

Crashes by Involvement	All	Fatal	A-injury
	Crashes	Crashes	Crashes
Lane Departure	50%	67%	52%
	<i>934</i>	12	49
Intersection	26%	28%	31%
	490	5	29
Young driver (24 and younger)	33%	17%	30%
	616	3	28
Drugs	2%	11%	6%
	39	2	6
Alcohol	6%	33%	16%
	117	6	<i>15</i>
Senior driver (65 and older)	21%	33%	19%
	389	6	<i>18</i>
Truck/Bus	4%	6%	2%
	77	1	2
Motorcycle	3%	0%	19%
	<i>50</i>	<i>0</i>	<i>18</i>
Pedestrian	0%	0%	2%
	8	<i>0</i>	2
Bicycle	0%	0%	0%
	5	<i>0</i>	<i>0</i>
Deer	54%	0%	5%
	2,196	<i>0</i>	5

^{*}Most crashes have multiple factors.

Emphasis Area Crash Percentages, Roscommon County, 2010-2014*

Crashes by Involvement	All	Fatal	A-injury
	Crashes	Crashes	Crashes
Lane Departure	49%	70%	52%
	1,056	14	41
Intersection	21%	15%	18%
	<i>450</i>	3	<i>14</i>
Young driver (24 and younger)	29%	25%	37%
	62 <i>4</i>	5	29
Drugs	1%	15%	4%
	22	3	3
Alcohol	6%	30%	18%
	138	6	<i>14</i>
Senior driver (65 and older)	23%	25%	27%
	<i>4</i> 86	<i>5</i>	21
Truck/Bus	3%	0%	3%
	67	<i>0</i>	2
Motorcycle	2%	15%	8%
	38	3	6
Pedestrian	1%	10%	4%
	17	2	3
Bicycle	1%	0%	4%
	12	<i>0</i>	3
Deer	43%	0%	5%
	1,633	<i>0</i>	4

^{*}Most crashes have multiple factors.

Emphasis Area Crash Percentages, Saginaw County, 2010-2014*

Crashes by Involvement	All	Fatal	A-injury
	Crashes	Crashes	Crashes
Lana Danartura	23%	60%	41%
Lane Departure	5,136	55	147
Intersection	48%	24%	38%
Intersection	10,885	22	136
Voung driver (24 and vounger)	39%	32%	33%
Young driver (24 and younger)	8,898	29	119
Drugo	1%	19%	4%
Drugs	225	17	15
Alcohol	4%	32%	20%
Alconoi	1,013	29	72
Senier driver (CF and alder)	18%	32%	17%
Senior driver (65 and older)	4,162	29	62
Truck/Due	3%	3%	4%
Truck/Bus	758	3	14
Motorovolo	1%	8%	10%
Motorcycle	297	7	35
Pedestrian	1%	9%	6%
redestrian	200	8	22
Biovolo	1%	5%	4%
Bicycle	141	5	13
Door	17%	3%	4%
Deer	4,718	3	13

^{*}Most crashes have multiple factors.

Emphasis Area Crash Percentages, Sanilac County, 2010-2014*

Crashes by Involvement	All	Fatal	A-injury
	Crashes	Crashes	Crashes
Lane Departure	44%	44%	43%
	1,008	8	43
Intersection	27%	33%	30%
	614	6	<i>30</i>
Young driver (24 and younger)	36%	28%	43%
	827	5	<i>4</i> 3
Drugs	1%	0%	5%
	32	<i>0</i>	<i>5</i>
Alcohol	8%	17%	18%
	189	3	<i>1</i> 8
Senior driver (65 and older)	17%	22%	20%
	388	<i>4</i>	<i>20</i>
Truck/Bus	5%	22%	7%
	126	4	7
Motorcycle	1%	6%	7%
	32	1	7
Pedestrian	1%	11%	7%
	22	2	7
Bicycle	1%	0%	2%
	<i>14</i>	<i>0</i>	2
Deer	70%	0%	9%
	5,526	<i>0</i>	10

^{*}Most crashes have multiple factors.

Emphasis Area Crash Percentages, Tuscola County, 2010-2014*

Crashes by Involvement	All	Fatal	A-injury
	Crashes	Crashes	Crashes
Lane Departure	47%	58%	51%
	2,013	22	99
Intersection	31%	37%	34%
	1,308	14	<i>65</i>
Young driver (24 and younger)	38%	42%	39%
	1,615	16	<i>7</i> 6
Drugs	1%	8%	5%
	56	3	9
Alcohol	9%	34%	24%
	374	13	<i>4</i> 6
Senior driver (65 and older)	15%	26%	16%
	<i>6</i> 37	10	<i>31</i>
Truck/Bus	20%	13%	5%
	827	5	9
Motorcycle	2%	11%	8%
	82	<i>4</i>	16
Pedestrian	1%	5%	4%
	35	2	7
Bicycle	0%	0%	1%
	16	<i>0</i>	2
Deer	52%	3%	5%
	<i>4,5</i> 20	1	10

^{*}Most crashes have multiple factors.